AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A digital communication system comprising:

a channel state judging section for judging ~~a~~ channel states of an inputted signal by using ~~a~~ field syncs of the inputted signal; and

an equalizing section for compensating for ~~a~~ channel distortion of the inputted signal by initializing ~~a~~ parameters on the basis of the judged channel states,

wherein the channel states ~~is one of~~ comprise a static state and a dynamic state.

2. (currently amended): A digital communication system comprising:

a channel state judging section for judging a channel ~~states~~ state of an inputted signal by using a field sync of the inputted signal; and

an equalizing section for compensating for a channel distortion of the inputted signal by initializing a parameter on the basis of the judged channel state,

wherein the channel state judging section comprises:

a channel prediction section for predicting the channel state of the inputted signal by means of the field sync;

a plurality of buffers for storing state information regarding a plurality of channels predicted by means of a plurality of field syncs;

a calculating section for calculating a difference between the state information regarding N number of channels among the plurality of channels stored in N number of buffers among the plurality of buffers, wherein N is a natural number; and

a judging section for judging the channel state on the basis of the calculated difference.

3. (currently amended): The digital communication system as claimed in claim 2, wherein the judging section judges the channel ~~states~~ state by means of a threshold value applied to the calculated difference.

4. (original): The digital communication system as claimed in claim 1, wherein the field sync is a PN sequence.

5. (currently amended): An operation method in a digital communication system, the method comprising the steps of:

(1) judging ~~a~~ channel states of an inputted signal by means of ~~a~~ field syncs of the inputted signal; and

(2) compensating for ~~a~~ channel distortion of the inputted signal by initializing ~~a~~ parameters on the basis of the judged channel states,

wherein the channel states ~~is~~ comprise ~~one of~~ a static state and a dynamic state.

6. (currently amended): An operation method in a digital communication system, the method comprising the steps of:

(1) judging a channel state of an inputted signal by means of a field sync of the inputted signal; and

(2) compensating for a channel distortion of the inputted signal by initializing a parameter on the basis of the judged channel state,

wherein step (1) comprises the steps of:

(a) predicting the channel state of the inputted signal by means of the field sync;

(b) storing state information regarding N number of channels predicted by means of N number of field syncs in N number of buffers, wherein N is a natural number;

(c) calculating a difference between the state information regarding the N number of ~~the~~ channels stored in the N number of ~~the~~ buffers; and

(d) judging the channel state on the basis of the calculated difference.

7. (previously presented): The method as claimed in claim 6, wherein, in step (d), the channel state is judged by means of a threshold value applied to the calculated difference.

8. (original): The method as claimed in claim 5, wherein the field sync is a PN sequence.

9. (currently amended): The digital communication system as claimed in claim 2, wherein ~~a number~~ N ~~of the buffers~~ equals ~~a number N of the channels and~~ a number ~~N~~ of the plurality of field syncs.